FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D).C. 2	20549
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

	OMB APPRO	VAL
	OMB Number:	3235-0287
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1	hours nor resnonse:	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* EAVES JOHN W			2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)									
EAVES JOHN W														Directo	r 10% Owi		ner				
(Last)	(Fi	rst)	(Middle)					est Trans	action (N	action (Month/Day/Year)					Officer below)	(give title		Other (s below)	pecify		
ONE CITYPLACE DRIVE				02	02/21/2011									President & COO							
(Street)					4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
ST. LOUIS MO 63141														X	•						
(City)	(6)	tota)	(7in)		-										Form filed by More than One Reporting Person						
(City)	(5)	tate)	(Zip)																		
		Tab	le I - No	n-Deriv	vativ	e Sec	curit	ies Ac	quired	, Dis	sposed o	f, or Be	nefic	cially	Owned						
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,		3. 4. Securities Acquired (Disposed Of (D) (Instr. 8)					5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership						
									Code	v	Amount	(A) or (D)	Price	e	Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)		
Common Stock 02/2				02/21/	/2007	2007			A		10,850	A	\$33	3.04(1)	105	,157		D			
Common Stock 0			02/21/	/2007				S		10,850	D	\$3	2.15	94,307		D					
]	Зу		
Common Stock													9,3	341			401(k) olan				
		-	Table II -	Deriva	ative	Secu	ıritie	s Acai	ired.	Disn	osed of,	or Ben	eficia	ally O	wned						
		'	idbic ii								converti				Wilcu						
1. Title of Derivative Security (Instr. 3) 2. Conversion of Exercise Price of Derivative Security (Instr. 3) 3. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Y		n Date,	4. Transactio Code (Inst 8)		on of		6. Date E Expiration (Month/I	on Dat		7. Title and Am of Securities Underlying Derivative Sect (Instr. 3 and 4)		D S	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e (o	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amo or Num of Shar	ber							
Restricted Stock	(2)	02/21/2011			M			10,850	(3)		(4)	Common Stock	10,8	350	(1)	10,850	0	D			

Explanation of Responses:

- 1. The reporting person received 21,700 restricted stock units on February 21, 2008. The restricted stock units vest as follows: 10,850 units vest on February 21, 2011 and 10,850 units vest on February 21, 2012. Upon vesting of 10,850 restricted stock units on February 21, 2011, the reporting person received 10,850 shares of common stock.
- 2. Each restricted stock unit represents a right to receive one share of common stock unless otherwise deferred, at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred
- 3. The reporting person received 21,700 restricted stock units on February 21, 2008. The restricted stock units vest ratably over a two-year period. On February 21, 2011, 10,850 restricted stock units vested.
- 4. The restricted stock units do not expire.

Remarks:

/s/ Jon S. Ploetz, Attorney-in-02/23/2011 Fact

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.